Please and add new claims 9 to ~~48~~ 37 as follows:

-- ~~9~~ 1. A polyphase electricity distribution and/or power transmission network comprising:

a plurality of phase conductors;

input means for input of a telecommunication signal having a carrier frequency greater than approximately 1MHz onto at least one of the phase conductors of the network; and

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output means for removing the telecommunication signal from at least one other phase conductor of the network.

~~10~~ 2. The network as claimed in claim ~~9~~ 1, wherein said telecommunication signal is transmissible over the network in a plurality of directions simultaneously.

~~11~~ 3. The network as claimed in claim ~~9~~ 1, wherein the carrier frequency is within the range of 1MHz to 60MHz.

~~12~~ 4. A network according to claim ~~9~~ 1, wherein the network connects a plurality of separate buildings and said telecommunication signal is transmissible between said buildings.

~~13~~ 5. The network as claimed in claim ~~9~~ 1, wherein the telecommunication signal propagates between at least one of the phase conductors of the network and ground.

6 5
14. A network according to claim 13, wherein the input means is for the input of the telecommunication signal onto only one of the phase conductors.

7
15. A trunk and branch multipoint electricity distribution and/or power transmission network including input means for input onto the network of a telecommunication signal having a carrier frequency greater than approximately 1MHz and output means for removing the telecommunication signal from the network.

B5 cont

8 7
16. The network as claimed in claim 15, wherein said telecommunication signal is transmissible over the network in a plurality of directions simultaneously.

9 7
17. The network as claimed in claim 15, wherein the carrier frequency is within the range of 1MHz to 60MHz.

10 7
18. A network according to claim 15, wherein the network connects a plurality of separate buildings and said telecommunication signal is transmissible between said buildings.

11 7
19. A network according to claim 15, including three phase conductors wherein said input means is for the input of said telecommunication signal onto one of the phase conductors and

23

said output means is for removing said telecommunication signal from at least one other phase conductor.

20. A network according to claim 19, wherein the input means is for the input of the telecommunication signal onto only one of the phase conductors.

21. The network as claimed in claim 15, wherein the telecommunication signal propagates between a phase conductor of the network and ground.

22. An electricity distribution and/or power transmission network at least part of which is external to a building, the network including input means for input onto the network of a telecommunication signal having a carrier frequency greater than approximately 1MHz and output means for removing the telecommunication signal from the network, the telecommunication signal being transmissible along the external part of the network.

23. The network as claimed in claim 22, wherein telecommunication signals are transmissible over the network in a plurality of directions simultaneously.

16 14
~~24~~. The network as claimed in claim ~~22~~, wherein the carrier frequency is within the range of 1MHz to 60MHz.

17 14
~~25~~. A network according to claim ~~22~~, wherein the network connects a plurality of separate buildings and said signal is transmissible between said buildings.

B5 CONT

18 14
~~26~~. A network according to claim ~~22~~, including three phase conductors wherein said input means is for the input of said telecommunications signal onto one of the phase conductors and said output means is for removing said telecommunication signal from at least one other phase conductor.

19 18
~~27~~. A network according to claim ~~26~~, wherein the input means is for the input of the signal onto only one of the phase conductors.

20 14
~~28~~. The network as claimed in claim ~~22~~, wherein the telecommunication signal propagates between a phase conductor of the network and ground.

21
~~29~~. A method of signal transmission including:

transmission of a telecommunication signal having a carrier frequency of greater than approximately 1MHz onto at least one

phase conductor of a polyphase electricity distribution and/or power transmission network; and

subsequent reception of the telecommunication signal from at least one other phase conductor of the network.

22 21
30. The method as claimed in claim 29, wherein the telecommunication signal is injected onto only one of the phases of the network.

B5 Cont

23 21
31. The method as claimed in claim 29, wherein telecommunication signals are transmitted over the network in a plurality of directions simultaneously.

24 21
32. The method as claimed in claim 29, wherein the telecommunication signal is modulated using a spread spectrum technique.

25
33. A method of signal transmission including input of a telecommunication signal having a carrier frequency of greater than approximately 1MHz onto a trunk and branch multipoint electricity distribution and/or power transmission network, and subsequent reception of the telecommunication signal.

26
34. A method of signal transmission including input of a telecommunication signal having a carrier frequency of greater

than approximately 1MHz onto an electricity distribution and/or power transmission network at least part of which is external to a building and subsequent reception of the telecommunication signal, the telecommunication signal being transmitted along the external part of the network.

B5 end

27 ~~35~~. The method as claimed in claim 26 ~~34~~, wherein the network is a polyphase network, and the telecommunication signal is injected onto only one phase of the network.

28 ~~36~~. The method as claimed in claim 26 ~~34~~, wherein telecommunication signals are transmitted over the network in a plurality of directions simultaneously.

29 ~~37~~. The method as claimed in claim 26 ~~34~~, wherein the telecommunication signal is modulated using a spread spectrum technique. --

In the Drawings:

Filed herewith is a separate letter addressed to the Official Draftsperson requesting approval of amendments to FIGS. 1, 8, 9 and 10 and showing the requested changes in red on sketches submitted in triplicate.